



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/213,271	12/17/1998	MARTIN R. HANDFORTH	RO-3951	7176

7590 10/21/2002

NORTHERN TELECOM LIMITED
DALLAS F SMITH
P O BOX 3511
STATION C
OTTAWA, K1Y4H7
CANADA

EXAMINER

TRAN, CON P

ART UNIT PAPER NUMBER

2644

DATE MAILED: 10/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/213,271

Applicant(s)

HANDFORTH ET AL.

Examiner

Con P. Tran

Art Unit

2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 July 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claim 1** is rejected under 35 U.S.C. 102(b) as being anticipated by Hung et al. U.S. Patent 4,709,296.

Regarding **claim 1**, Hung et al. teaches a protection arrangement for a line circuit (see Fig. 2, and respective portions of the specification), comprising:

current sensing means (20) for sensing current flowing through the telephone subscriber line (14, see col. 2, lines 49-53);

isolation means (18) for selectively coupling a power supply (through feed resistors 16) to the line circuit (see col. 1, line 65 – col. 2 line 1); and

control means (22) for operating the isolation means (18) to decouple the power supply from the line circuit (14) in response to a current sensed (see col. 5, lines 30-35), by the current sensing means (20) exceeding a current threshold (see col. 2, lines 6-11), and to recouple the power supply to the line circuit responsive to a predetermined time interval (see col. 3, lines 33-42) having passed.

Art Unit: 2644

3. Claims 7-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Hung et al. U.S. Patent 5,390,231.

Regarding **claim 7**, Hung et al. teaches a method of protecting a line circuit connected to a power supply and to a telephone subscriber line from an over-current condition (see Fig. 1, 2, and respective portions of the specification), the over-current condition being defined as when current flowing through the telephone subscriber line exceeds a predetermined current threshold value (see col. 7, lines 40-47), comprising the steps of:

- a) checking for a presence of the over-current condition (see col. 7 lines 48-50);
- b) starting, responsive to the over-current condition being present, a timer of predetermined duration (see col. 7 lines 56-59);
- c) disconnecting, responsive to the timer having expired, the line circuit from the power supply (see col. 8 lines 42-46);
- d) waiting a predetermined amount of time (see col. 9 lines 7-12); and
- e) reconnecting the line circuit to the power supply (see col. 7 lines 18-25).

Regarding **claim 8**, Hung et al. further teaches a method, wherein the step (b) of starting further comprises the steps of (see Fig. 2, and respective portions of the specification):

Art Unit: 2644

checking (block 52), after starting the timer, for the presence of the over-current condition (see col. 7, lines 55-67); and

stopping (block 55), responsive to the over-current condition no longer being present, the timer and continuing the method from the step (a) of checking (see col. 7, line 67 – col. 8, line 6);

Regarding **claim 9**, Hung et al. further teaches a method, wherein the step (b) of starting further comprises the steps of (see Fig. 2, 4 and respective portions of the specification):

checking (block 82), responsive to starting the timer and to the over current condition being present, for a presence of an over-voltage condition (see col. 13, lines 11-28), the over-voltage condition being defined as when voltage on the telephone subscriber line exceeds a predetermined voltage threshold value (see col. 7, lines 11-20); and

stopping (block 50), responsive to the over-voltage condition being present, the timer and continuing the method from the step (a) of checking (see col. 8, line 7-41).

Regarding **claim 10**, Hung et al. further teaches a method, as claimed in claim 9, wherein the step (b) of starting a timer further comprises the steps of (see Fig. 2, and respective portions of the specification):

Art Unit: 2644

checking (block 59), responsive to the over-current condition being present and an over-voltage condition not being present, the timer to determine if the timer has expired (see col. 7, line 55 – col. 8, lines 6); and

continuing (block 51), responsive to the timer not having expired, the method from the step of checking, after starting the timer, for the presence of the over-current condition (see col. 8, lines 7-21).

Regarding **claim 11**, Hung et al. teaches a method of protecting a line circuit (see Fig. 2, 3 and respective portions of the specification) connected to a telephone subscriber line from an over-voltage condition, the over voltage condition being defined as when voltage on the telephone subscriber line exceeds a predetermined voltage threshold value (see col. 7, lines 11-20), comprising the steps of:

- a) checking (block 55) for a presence of the over-voltage condition;
- b) starting (block 58), responsive to the over-voltage condition being present, a first timer of predetermined duration;
- c) disconnecting (block 61), responsive to the timer having expired and to the over-voltage condition being present, the line circuit from the telephone subscriber line;
- d) waiting a predetermined amount of time (see col. 10, lines 52-59); and
- e) reconnecting the line circuit to the telephone subscriber line (see col. 10, lines 59-65).

Regarding **claim 12**, Hung et al. teaches a method circuit (see Fig. 1, 2 and respective portions of the specification), wherein the method further comprises the steps of:

- f) checking (block 55) for the presence of the over-voltage condition;
- g) restarting (block 58), responsive to the over-voltage condition being present, the first timer; and
- h) disconnecting (block 61), responsive to the first timer having expired after being restarted and to the over-voltage condition being present, the line circuit from the telephone subscriber line (see col. 9, lines 13-30).

Regarding **claim 13**, Hung et al. further teaches a method (see Fig. 1, 2 and respective portions of the specification) as claimed in claim 12, wherein the step (e) of reconnecting further comprises the steps of:

- starting a second timer (63) of predetermined duration after the telephone subscriber interface circuit has been reconnected to the telephone subscriber line; and
- continuing (block 51), responsive to the second timer having expired and the over-voltage condition not being present, the method from the step (a) of checking (see col. 9, lines 7-12).

Regarding **claim 14**, Hung et al. further teaches a method as claimed in claim 12, wherein the step (b) of starting further comprises the steps of (see Fig. 1, 2 and respective portions of the specification):

checking (block 51), after the first timer has been started, for the presence of the over-voltage condition; and

continuing (block 52), responsive to the over-voltage condition not being present and the first timer not having expired, the method from the step (a) of checking (see col. 9, lines 7-12).

Regarding claim 15, Hung et al. further teaches a method as claimed in claim 13, wherein the step (g) of restarting further comprises the steps of (see Fig. 1, 2 and respective portions of the specification):

checking (block 54), after the first timer (block 58) has been restarted, for the presence of the over-voltage condition; and

continuing (block 52), responsive to the over-voltage condition not being present, the method from the step of starting a second timer (see col. 9, lines 7-12).

Regarding claim 16, Hung et al. teaches a method (see Fig. 1, 2, 3, 5 and respective portions of the specification) of protecting a line circuit connected to a telephone subscriber line from positive and negative over-voltage conditions (see col. 14, lines 24-33), the positive over-voltage condition being defined as when voltage on the telephone subscriber line exceeds a predetermined positive voltage threshold value and the negative over-voltage condition being defined as when voltage on the telephone subscriber line exceeds a predetermined negative voltage threshold value (see col. 14, lines 40-48), comprising the steps of:

- a) checking (block 55) for a presence of the positive over-voltage condition;
- b) checking (block 55), responsive to the positive over-voltage condition not being present, for a presence of the negative over-voltage condition;
- c) starting (block 58), responsive to the negative over-voltage condition being present, a first timer of predetermined duration;
- d) disconnecting (block 61), responsive to the timer having expired and to the negative over-voltage condition being present, the line circuit from the telephone subscriber line;
- e) waiting a predetermined amount of time (block 63); and
- f) reconnecting (91) the line circuit to the telephone subscriber line (see col. 14, lines 33-39).

Regarding **claim 17**, Hung et al. further teaches a method (see Fig. 1, 2 and respective portions of the specification) a method, wherein the method further comprises the steps of:

- g) checking (block 55) for a presence of the positive over-voltage condition;
- h) checking (block 55), responsive to the positive over-voltage condition not being present, for a presence of the negative over-voltage condition;
- i) restarting (block 58), responsive to the negative over-voltage condition being present, the first timer; and

j) disconnecting (block 61), responsive to the first timer having expired after being restarted and to the negative over-voltage condition being present, the line circuit from the telephone subscriber line.

Regarding **claim 18**, Hung et al. further teaches a method (see Fig. 1, 2, 5 and respective portions of the specification) a method as claimed in claim 17, wherein the step (f) of reconnecting further comprises the steps of:

starting (block 92), after the telephone subscriber interface circuit has been reconnected to the telephone subscriber line, a third timer of predetermined duration;

checking (block 94), for a presence of the positive over-voltage condition;

checking (block 95), responsive to the positive over-voltage condition not being present, for a presence of the negative over-voltage condition; and

continuing (block 55), responsive to the third timer having expired and both positive and negative over-voltage conditions not being present, the method from the step (a) of checking (see col. 15, lines 33-45).

Regarding **claim 19**, Hung et al. further teaches (see Fig. 1, 2, 4 and respective portions of the specification) a method as claimed in claim 17, wherein the step (c) of starting further comprises the steps of:

checking (block 55), after the first timer has been started, for a presence of the positive over-voltage condition;

Art Unit: 2644

starting (block 63), responsive to the positive over-voltage condition being present, a second timer of predetermined duration;

disconnecting (block 61), responsive to the second timer having expired and to the positive over-voltage condition being present, the line circuit from the telephone subscriber line;

waiting a predetermined amount of time (block 63); and

reconnecting (block 84) the line circuit to the telephone subscriber line (see col. 13, lines 12-27).

Regarding **claim 20**, Hung et al. further teaches (see Fig. 1, 2 and respective portions of the specification) a method as claimed in claim 18, wherein the step (i) of restarting further comprises the steps of:

checking (block 55), after the first timer (block 58) has been restarted, for a presence of the positive over-voltage condition;

starting (block 63), responsive to the positive over-voltage condition being present, a second timer of predetermined duration; and

disconnecting (block 61), responsive to the second timer having expired and to the positive over-voltage condition being present, the line circuit from the telephone subscriber line.

Art Unit: 2644

Regarding **claim 21**, Hung et al. further teaches (see Fig. 1, 2 and respective portions of the specification) a method as claimed in claim 20, wherein the step of starting a second timer further comprises the steps of:

checking (block 55), after the second timer has been started, for the presence of the positive over-voltage condition; and

continuing (block 62), responsive to the positive over-voltage condition not being present and the second timer not having expired, the method from the step of starting the third timer.

Regarding **claim 22**, Hung et al. further teaches (see Fig. 1, 2, 5 and respective portions of the specification) a method as claimed in claim 20, wherein the step of:

checking (block 55) for a presence of the positive over-voltage condition after the first timer has been restarted further comprises the steps of:

checking (block 95), responsive to the positive over-voltage condition not being present, for the presence of the negative over-voltage condition (see col. 15, lines 7-18); and

continuing (block 62), responsive to the negative over-voltage condition not being present and the first timer not having expired after having been restarted, the method from the step of starting the third timer (see col. 14, lines 33-39).

Regarding **claim 23**, Hung et al. further teaches (see Fig. 1, 2, 5 and respective portions of the specification) a method as claimed in claim 16, wherein the step (c) of starting further comprises the steps of:

checking (block 55), after the first timer has been started, for the presence of the negative over-voltage condition; and

continuing (block 51), responsive to the negative over-voltage condition not being present and the first timer not having expired, the method from the step (a) of checking (see col. 7, lines 48-55).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 2-6** are rejected under 35 U.S.C. 103(a) as being unpatentable over Hung et al. U.S. Patent 4,709,296 in view of Chen U.S. Patent 6,288,883.

Regarding **claim 2**, Hung et al. teaches a protection arrangement for a line circuit a protection arrangement of claim 1. However, Hung et al. reference does not explicitly disclose an isolation means that comprises:

a FET having a source for connecting to the power supply, a drain for connecting to the line circuit, and a gate; and

an interface circuit connected to the source and drain of the FET, having an input connected to the control means, and an output connected to the gate of the FET, the interface circuit for operating the FET in saturation mode to couple the power supply to the line circuit and for turning off the FET to decouple the power supply from line circuit.

In the same field of endeavor, Chen teaches an isolation means that comprises (see Fig. 2, 3, and respective portions of the specification):

a FET (Q102) having a source (S) for connecting to the power supply (i.e., input 12), a drain (D) for connecting to the line circuit (i.e., output 18), and a gate (G; see col. 3, lines 11-21); and

an interface circuit (see col. 1, lines 20-26) connected to the source (S) and drain (D) of the FET (see col. 3, lines 25-31), having an input connected to the control means (C125), and an output connected to the gate of the FET, the interface circuit for operating the FET in saturation mode to couple the power supply to the line circuit and for turning off the FET to decouple the power supply from line circuit (see col. 4, lines 5-15) in order to provide over-voltage or over-current protection (see col. 2, lines 37-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included within the Hung et al. reference an

Art Unit: 2644

isolation circuit as taught by Chen since such combination would provide over-voltage or over-current protection as suggested by Chen in col. 2, lines 37-41.

Regarding **claim 3**, Chen further teaches a protection arrangement (see Fig. 2, 3, and respective portions of the specification), wherein the interface circuit comprises:

a voltage divider having first (R125) and second (126) resistors, the first resistor (125) connected to the source (S) of the FET at one end and to the gate (G) of the FET at the other end, and the second resistor (126) connected to the gate of the FET at one end (see col. 5, lines 25-27); and

a pnp transistor (i.e., Q101, see col. 5, lines 34-38) having a base connected to ground, an emitter coupled to the controller means (C125), and a collector connected to the other end of the second resistor. It should be noted that the Chen reference discloses a npn transistor in drawings (Fig. 3). However, the reference does not explicitly specify a npn transistor in the specification.

Nevertheless, as would have been well known in the art at the time the invention was made, those of ordinary skill in the art would be able to modify the npn transistor in the protection circuit taught by Chen reference with a pnp transistor.

Accordingly, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the npn transistor in the protection circuit taught by Chen reference with a pnp transistor.

Regarding **claim 4**, Chen further teaches a protection arrangement (see Fig. 2 and 3), wherein the interface circuit further comprises a zener diode (16) having an anode connected to the source of the FET (Q 102) and a cathode connected to the gate of the FET (see col. 3 lines 39-41).

Regarding **claim 5**, Chen further teaches a protection arrangement (see Fig. 3), wherein the interface circuit further comprises a capacitor (C125) connected to the emitter of the pnp transistor at one end and to the drain (D) of the FET (Q102) at the other end (see col. 4 lines 5-11).

Regarding **claim 6**, Chen further teaches a protection arrangement (see Fig. 3), wherein the interface circuit further comprises a resistor (R133) that couples the emitter of the pnp transistor to the controller (C125; see col. 4 lines 16-19).

Response to Arguments

6. Applicant's arguments filed on July 3, 2002 have been fully considered but they are not persuasive.

7. Applicant asserts on page 2 :

"However, the passage cited by the examiner and element 18 does not teach *coupling a power supply to the line circuit as*

claims, but instead teaches switching means to connect the feed resistors (16) to the line interface circuit....

Moreover, because there is no teaching of an isolation means for decoupling a power supply from the line circuit as claimed, there can be no control means for operating the isolation means to decouple the power supply from the line circuit and recouple the power supply to the line circuit as claimed either."

Applicant further asserts on page 3 :

"However, nowhere in this passage do Hung et al. teaches disconnecting the line circuit from a power supply as claimed. Indeed, no power supply is even mentioned. Hung et al. teaches opening relays 14 between a sensing circuit and the tip and ring terminals of a subscriber phone line. However, there is no power supply that is disconnected as recited in Applicant's claim. Thus, Hung et al. does not teach disconnecting the line circuit from a power supply as claimed. Moreover, as there is no teaching of disconnecting the power supply as claimed, there can similarly be no teaching of reconnecting the line circuit to the power supply as claimed either."

It is the Examiner's position that isolation relay 18 connects (couples) or disconnects (decouples) the feed resistors 16 (that connect Tip T and Ring R from Central Office and provide power supply) to the line [interface] circuit. Therefore, claims 1 and 7 are seen to be properly rejected and are being maintained by the Examiner.

Claims 8-10 depend from claim 7, and are also rejected.

8. Applicant further asserts on page 4 :

"Moreover, an over current condition is an indication of an under-voltage condition, not an over- voltage condition and thus Hung et al. does not anticipate the claimed invention, but teaches away from the claimed invention.

Thus, Hung et al. does not anticipate the claimed invention. Block 58 is similarly responsive to an over-current condition (i.e., under-voltage condition), not an over voltage condition and thus does not anticipate the claimed invention. For similar reasons, claims 12 -23 are not anticipated by Hung et al. as these claims recite."

It is the Examiner's position that an over current condition (due to lightning strike or contacting to power line) will result an over- voltage condition. Therefore, claims 11-23 are seen to be properly rejected and are being maintained by the Examiner.

Art Unit: 2644

Also, in realities, over current is served as a voltage drop across 16a, 16b, common mode. In other words, over current is measured as a voltage difference; high voltage difference across 16a or 16b means high current.

Claims 2-6 depend from claim 1, and are also rejected.

Conclusion

9. The following are suggested formats for either a Certificate of Mailing or Certificate of Transmission under 37 CFR 1.8(a). The certification may be included with all correspondence concerning this application or proceeding to establish a date of mailing or transmission under 37 CFR 1.8(a). Proper use of this procedure will result in such communication being considered as timely if the established date is within the required period for reply. The Certificate should be signed by the individual actually depositing or transmitting the correspondence or by an individual who, upon information and belief, expects the correspondence to be mailed or transmitted in the normal course of business by another no later than the date indicated.

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

on _____.
(Date)

Typed or printed name of person signing this certificate:

Signature: _____

Certificate of Transmission

Art Unit: 2644

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax No. (703) _____ - _____ on _____.
(Date)

Typed or printed name of person signing this certificate:

Signature: _____

Please refer to 37 CFR 1.6(d) and 1.8(a)(2) for filing limitations concerning facsimile transmissions and mailing, respectively.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Con P. Tran, whose telephone number is (703) 305-2341. The examiner can normally be reached on M - F (8:30 AM - 5:00 PM).

Application/Control Number: 09/213,271
Art Unit: 2644

Page 20

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office at telephone number (703) 306-0377.

cpt CPT
October 16, 2002

FAN TSANG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

A handwritten signature in black ink, appearing to read 'Fan Tsang', is written over the printed name and title.